BRUHATH BENGALORE MAHANAGARA PALIKE DASARAHALLI ZONE
EXCECUTIVE ENGINEER PROJECT DIVISION DASRAHALLI

ame of Work:Construction of Concrete Retaining Wall at BHEL mini colony slum in Mallasandra ward No.13

l o	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Civil Work								
	KSRRB 300-1. **Earthwork excavation** by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete asper specifications.MORTH / Chapter 3(I No-19.1, P No-133)								
	For RCC Retaining wall	1	27.00	2.40	1.50	97.20			
	West Side SSM Wall	1	14.80	1.80	1.50	39.96			
		1	9.20	1.80	1.50	24.84			
		1	12.30	1.80	1.50	33.21			
		1	18.40	1.80	1.50	49.68			
		1	2.40	1.80	1.50	6.48			
		1	6.30	1.80	1.50	17.01			
		1	3.70	2.00	1.50	11.10			
		1	1.50	2.00	1.50	4.50			
		1	2.25	2.00	1.50	6.75			
	Over Burdem Earth	1	8.00	3.75	0.70	21.00			
		1	9.00	3.85	0.80	27.72			
						339.45	Cum	170.92	58,018.79
	Providing and Filling in foundation with granite/trap broken metal 100 mm and down size,with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.								
	For RCC Retaining wall	1	27.00	2.40	0.25	16.20			
	Below ground level								
	West Side SSM Wall	1	14.80	1.80	0.20	5.33			
		1	9.20	1.80	0.20	3.31			
		1	12.30	1.80	0.20	4.43			
		1	18.40	1.80	0.20	6.62			
		1	2.40	1.80	0.20	0.86			
		1	6.30	1.80	0.20	2.27			
		1	3.70	2.00	0.20	1.48			
		1	1.50	2.00	0.20	0.60			
		1	2.25	2.00	0.20	0.90			
						42.00	Cum	2240.84	94124.24

Scanned by CamScanner

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms^thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2.(P.No-12,I No-4.2)								
For RCC Retaining wall	1	27.00	2.40	0.20	12.96			
West Side SSM Wall	1	14.80	1.80	0.15	4.00			
	1	9.20	1.80	0.15	2.48			
	1	12.30	1.80	0.15	3.32			
	1	18.40	1.80	0.15	4.97			
	1	2.40	1.80	0.15	0.65			
	1	6.30	1.80	0.15	1.70			
	1	3.70	2.00	0.15	1.11			
	1	1.50	2.00	0.15	0.45			
	1	2.25	2.00	0.15	0.68			
					32.31	**Cum**	**5348.76**	**172834.48**
Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.**Using Available Stones**								
Available Stone Qty					**115.39**	**Cum**	**3735.00**	**430985.90**
KSRB 5.2-3 : Providing and **constructing granite / trap / basalt size stone masonry** in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.(I No-5.6,P No-23)								
In out door Stadim BHEL Mini								
Below ground level								
West Side SSM Wall	1	14.80	1.65	1.20	29.30			
	1	9.20	1.65	1.20	18.22			
	1	12.30	1.65	1.20	24.35			
	1	18.40	1.65	1.20	36.43			
	1	2.40	1.65	1.20	4.75			
	1	6.30	1.65	1.20	12.47			
	1	3.70	1.80	1.20	7.99			
	1	1.50	1.80	1.20	3.24			
	1	2.25	1.80	1.20	4.86			
Above ground level 1st Step								
Length 14.80m 1st Step	1	14.80	1.20	1.50	26.64			
2nd Step	1	14.80	1.05	1.00	15.54			
Length 9.20m								
1st Step	1	9.20	1.35	1.75	21.74			

Scanned by CamScanner

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
:nd Step	1	9.20	1.20	1.55	17.11			
:rd Step	1	9.20	1.05	0.93	8.98			
:ength 1.60m								
:st Step	1	1.60	0.90	1.75	2.52			
:nd Step	1	1.60	0.75	1.06	1.27			
:ength 12.30m								
:st Step	1	12.30	1.20	1.45	21.40			
:nd Step	1	12.30	1.00	1.50	18.45			
:rd Step	1	12.30	0.80	1.00	9.84			
:ength 18.40m								
1st Step	1	18.40	1.20	1.00	22.08			
2nd Step	1	18.40	1.05	1.40	27.05			
3rd Step	1	18.40	0.90	1.20	19.87			
4th Step	1	18.40	0.75	1.05	14.49			
Length 2.40m								
1st Step	1	2.40	1.20	1.00	2.88			
2nd Step	1	2.40	1.05	1.40	3.53			
3rd Step	1	2.40	0.90	1.20	2.59			
4th Step	1	2.40	0.75	1.05	1.89			
:ength 6.30m								
1st Step	1	6.30	1.35	0.60	5.10			
2nd Step	1	6.30	1.20	1.30	9.83			
3rd Step	1	6.30	1.00	1.50	9.45			
4th Step	1	6.30	0.80	1.00	5.04			
:ength 3.70m								
1st Step	1	3.70	1.50	1.30	7.22			
2nd Step	1	3.70	1.35	0.90	4.50			
3rd Step	1	3.70	1.20	0.65	2.89			
4th Step	1	3.70	0.90	0.60	2.00			
:ength 1.50m								
:st Step	1	1.50	1.65	1.80	4.46			
:nd Step	1	1.50	1.50	1.30	2.93			
:rd Step	1	1.50	1.35	0.90	1.82			
:th Step	1	1.50	1.20	0.65	1.17			
:th Step	1	1.50	0.90	0.60	0.81			
:ength 1.60m								
:st Step	1	1.60	1.65	1.80	4.75			
:nd Step	1	1.60	1.50	1.30	3.12			
:rd Step	1	1.60	1.35	0.90	1.94			
:h Step	1	1.60	1.20	0.65	1.25			
:ngth 1.60m								
:t Step	1	2.25	1.65	1.80	6.68			
:d Step	1	2.25	1.50	1.30	4.39			
:d Step	1	2.25	1.35	0.90	2.73			

Scanned by CamScanner

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
					461.56			
Deduct Available Stone Qty					115.39			
					346.17	Cum	4438.22	1536393.76
KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6								
Plinth Beam For SSM Wall								
Length 14.80m 1st Step	1	14.80	1.50	0.18	3.89			
2nd Step	1	14.80	1.20	0.18	3.11			
Length 9.20m								
GL Step	1	9.20	1.50	0.18	2.42			
1st Step	1	9.20	1.35	0.18	2.17			
2nd Step	1	9.20	1.20	0.18	1.93			
3rd Step	1	9.20	1.05	0.18	1.69			
Length 1.60m								
GL Step	1	1.60	1.20	0.18	0.34			
1st Step	1	1.60	0.90	0.18	0.25			
Length 12.30m								
below GL	1	12.30	1.50	0.18	3.23			
1st Step	1	12.30	1.20	0.18	2.58			
2nd Step	1	12.30	1.00	0.18	2.15			
Length 18.40m								
below GL	1	18.40	1.50	0.18	4.83			
1st Step	1	18.40	1.20	0.18	3.86			
2nd Step	1	18.40	1.05	0.18	3.38			
3rd Step	1	18.40	0.90	0.18	2.90			
Length 2.40m								
below GL	1	2.40	1.50	0.18	0.63			
1st Step	1	2.40	1.20	0.18	0.50			
2nd Step	1	2.40	1.05	0.18	0.44			
3rd Step	1	2.40	0.90	0.18	0.38			
Length 6.30m								
below GL	1	6.30	1.50	0.18	1.65			
1st Step	1	6.30	1.35	0.18	1.49			
2nd Step	1	6.30	1.20	0.18	1.32			
3rd Step	1	6.30	1.00	0.18	1.10			
Length 3.70m								
blow GL	1	3.70	1.80	0.18	1.17			

Scanned by CamScanner

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
st Step	1	3.70	1.50	0.18	0.97			
nd Step	1	3.70	1.35	0.18	0.87			
rd Step	1	3.70	1.20	0.18	0.78			
th Step	1	3.70	0.80	0.10	0.30			
ength 1.50m								
low GL	1	3.70	1.80	0.18	1.17			
st Step	1	3.70	1.65	0.18	1.07			
nd Step	1	3.70	1.50	0.18	0.97			
rd Step	1	3.70	1.35	0.18	0.87			
th Step	1	3.70	1.20	0.18	0.78			
th Step	1	3.70	0.80	0.10	0.30			
ength 1.60m								
low GL	1	1.60	1.80	0.18	0.50			
st Step	1	1.60	1.65	0.18	0.46			
nd Step	1	1.60	1.50	0.18	0.42			
rd Step	1	1.60	1.35	0.18	0.38			
ength 2.25m								
low GL	1	1.60	1.80	0.18	0.50			
st Step	1	1.60	1.65	0.18	0.46			
nd Step	1	1.60	1.50	0.18	0.42			
rd Step	1	1.60	1.35	0.18	0.38			
					59.01	Cum	6594.26	389153.66
KSRRB M2100-17.2. Plain / Reinforced Cement Concrete **design mix M25** with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008,**Open Foundation** complete as per Drawing and Technical Specification Case - II : With Batching Plant, Transit Mixer and Concrete Pump MORTH Specification No. 1500,1700 & 2100 (Pg 219 & Item no27.31)								
For Footing	1	27.00	2.20	0.70	41.58			
					41.58	Cum	6449.04	268151.08
KSRRB M2200-5.12.Plain / Reinforced Cement Concrete Design **mix M25 with OPC cement** @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7cum and fine aggregates @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 - **i) Upto 5m height** (Pg 223 & Item no 28.7.12)								
For RCC Retaining Wall								
	1	27.00	0.45	2.50	30.38			
	1	27.00	0.30	2.30	18.63			
					49.01	Cum	7249.34	355253.91
KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I.No:4.28, P.No:15, SR 2016-17)								

Scanned by CamScanner

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	For Footing	2	27.00		0.70	37.80			
		Sqm				37.80	Sqm	244.86	9255.71
	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2								
	For RCC Retaining wall								
	For Footing	2	27.00		0.70	37.80			
	For Wall	2	27.00		2.40	129.60			
		2	27.00		2.40	129.60			
						297.00	Sqm	310.58	92242.26
	KSRB 4.9.2 : **Providing T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3(I No-4.46.2,P No-17)								
	Consider 90kg/Cum	1	149.60	90.00		13463.91			
						13463.91			
						13.46	Tn	64243.42	864967.62
	KSRRB M2200- Providing **Weep Holes** KSRRB M2200-8. Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications MORTH Specification No.2706 & 2200 (Pg 225 & Item no 28.10)								
	For RCC Retaining wall	25	0.45			6.25			
	For SSM Wall	40	0.60			24.00			
						30.25	Nos/mtr	178.08	5386.92
	KSRRB M2100 **Back Filling of abutments** using wing wall & Returns KSRRB M2100-7. Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications. VI. Backfilling in Marshy Foundation Pits." MORTH Specification No. 304(Pg 217 & Item no 27.15)								
	For RCC Retaining wall								
		1	27.00	2.70	2.40	174.96			
		1	27.00	3.50	2.40	226.80			
	For SSM Retaining wall	1	30.00	3.50	1.50	157.50			
		1	28.00	3.50	0.90	88.20			
						647.46	Cum	273.48	177067.36
								Total Construction Cost	4453835.70

Scanned by CamScanner

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
							KRIDL Charges 11%	489877.99
							Towards PMC Cost	55,000.00
							Sub Total	4998314.26
							Utility Shifting,Miscellaneous and Rounding off	1,685.74
							GRAND TOTAL	5000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2016-2017.and Data Rates

Assistant Engineer
Project division,Dasrahalli
BBMP Bangalore

Asst. Executive Engineer,
Project division,Dasrahalli
BBMP Bangalore

Executive Engineer,
Project division,Dasrahalli
BBMP Bangalore

ನಂ: BBMP/EE/Projects/S5/17-18, ದಿ: 20/03/18.
ದಿನಾಂಕ:
ರೂ: 50.00 lakhs only
.....
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯೋಜನಾ ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿಬಿಎಂಪಿ

CE/TS/H90/17-18 ದಿನಾಂಕ: 20/03/2018
Rs. 50.00 lakhs only
.....
ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

Scanned by CamScanner